

SCANA Emergency Response Planning and Execution



Emergency Response

- Maintain corporate-wide and departmental Emergency Response Plans (Storm, Flood, Earthquake, Terrorist Attack, Blackout, etc)
- Hold periodic Mock Drills with all of the emergency coordinators
- Maintain liaison and continuous communications w/ state EMD, National Guard and other emergency response officials
- Maintain procedures to comply with critical infrastructure standards & requirements
- Maintain Emergency Communication Systems to notify key employees
- Maintain Emergency Response Center for use during emergency situations
- Utilize Communication/Voice-based restoration tracking and damage assessment system
- Continuously evaluate security of critical infrastructure



Response Plan for All Emergencies

- Track and evaluate potential response to weather systems long before impact
- Track and evaluate potential impact of terrorist threats
- Hold conference calls with other utilities and resource providers before potential impact
- Emergency Response Coordinator notifies (phone, pager, email, etc) key members of Emergency Response Organization to meet via conference call
- If situation is imminent, Emergency Response Coordinator activates emergency plans and opens Emergency Response Center (24 hour coverage, all SCANA employees are on call)
- Hold periodic meetings for status updates (Off system crews coming in, Outages, Employee Communication Updates, Public Communications, etc)

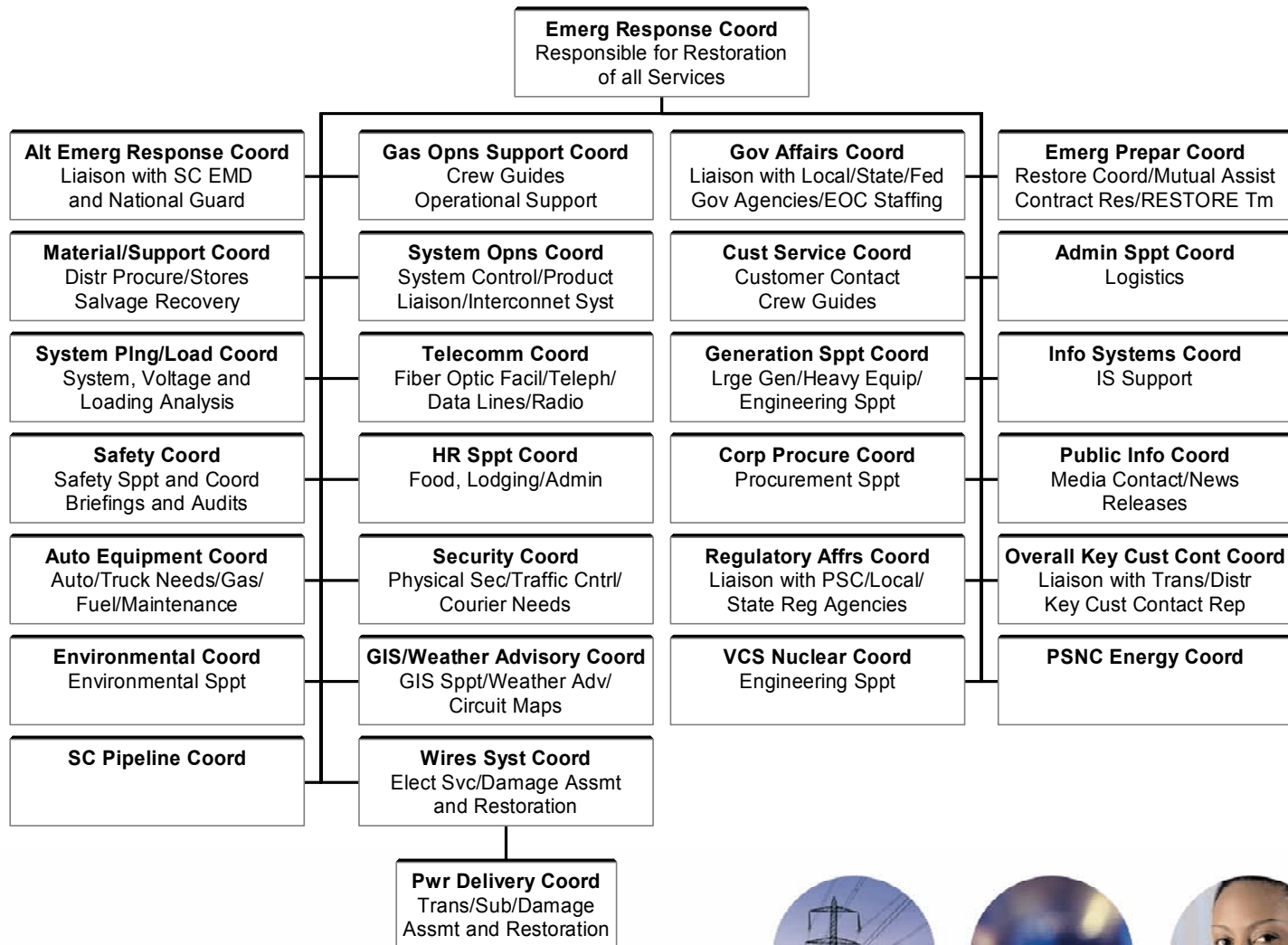


Response Plan for All Emergencies

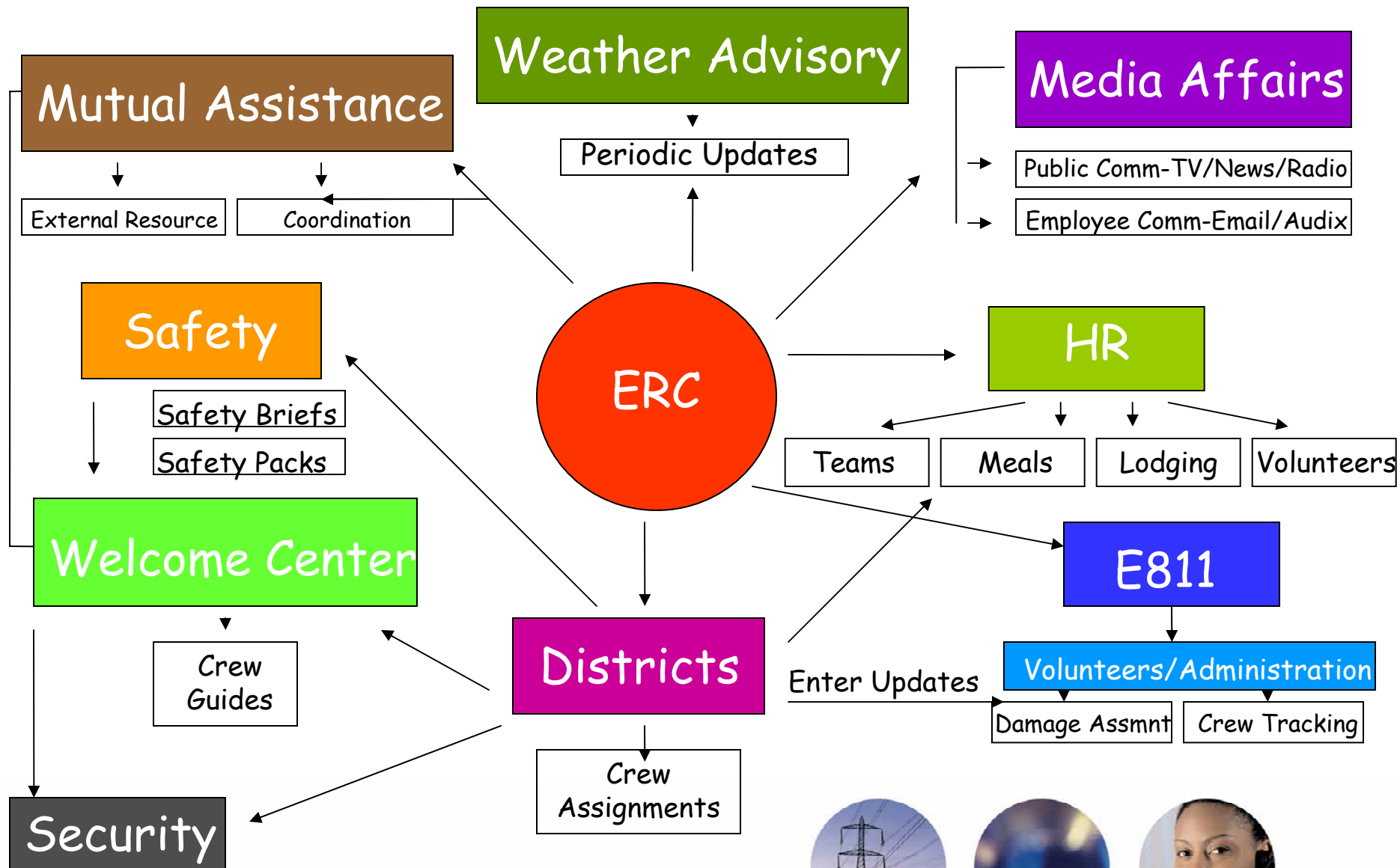
- Emergency Response Center will remain open until the emergency is sufficiently passed and corporate support is no longer needed.
- Following every emergency situation, we evaluate effectiveness of our response and discuss opportunities to make improvements
- Continue to develop systems and data to respond to crisis.
 - Electric displays
 - SCADA upgrades (electric and gas transmission)
 - Inter-utility and corporate communication
 - Weather intelligence (e.g., Weather Bug)
 - Electric and gas damage assessment system
 - Intelligence community liaisons



Emergency Response Team

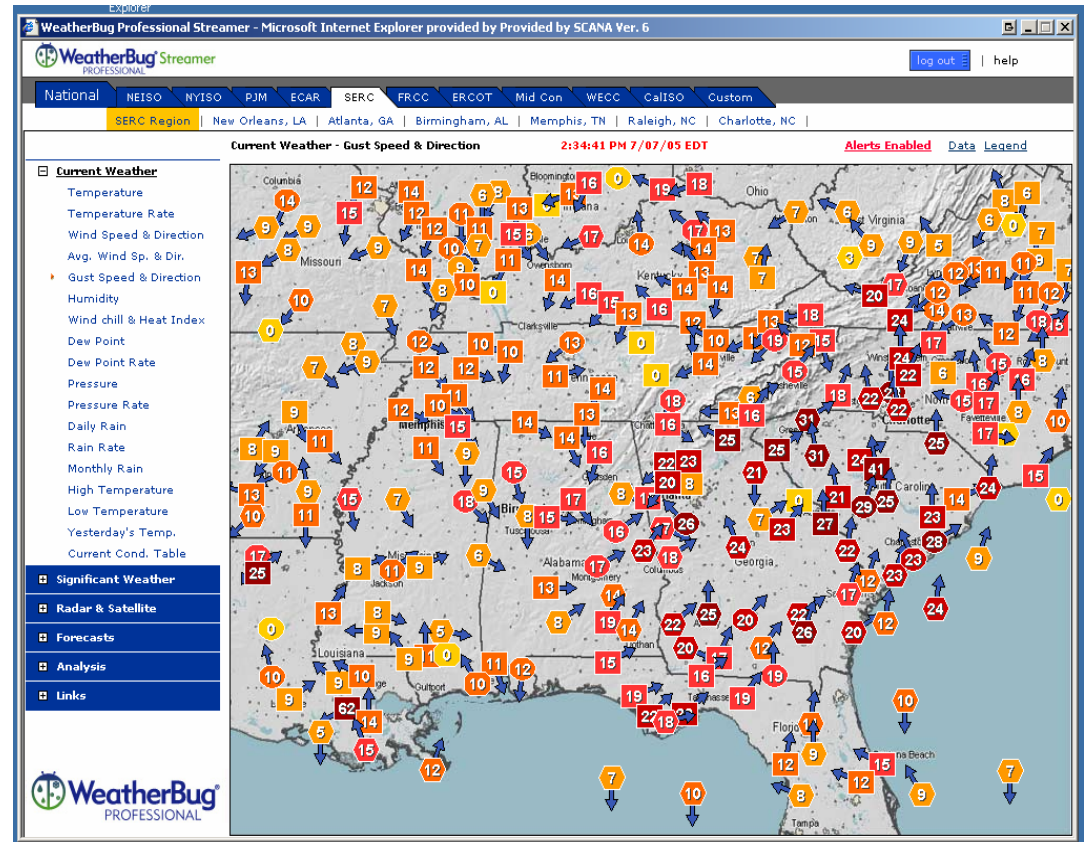


Emergency Response Center (ERC) Flowchart



Weather Bug

- Continuously updating wind, speed, direction, rainfall and temperature
- Wind, speed, direction, rainfall and temperature, as well as camera



Crisis Response

- Critical Infrastructure
- Interaction between utilities during emergencies



Gas Transmission System Monitoring

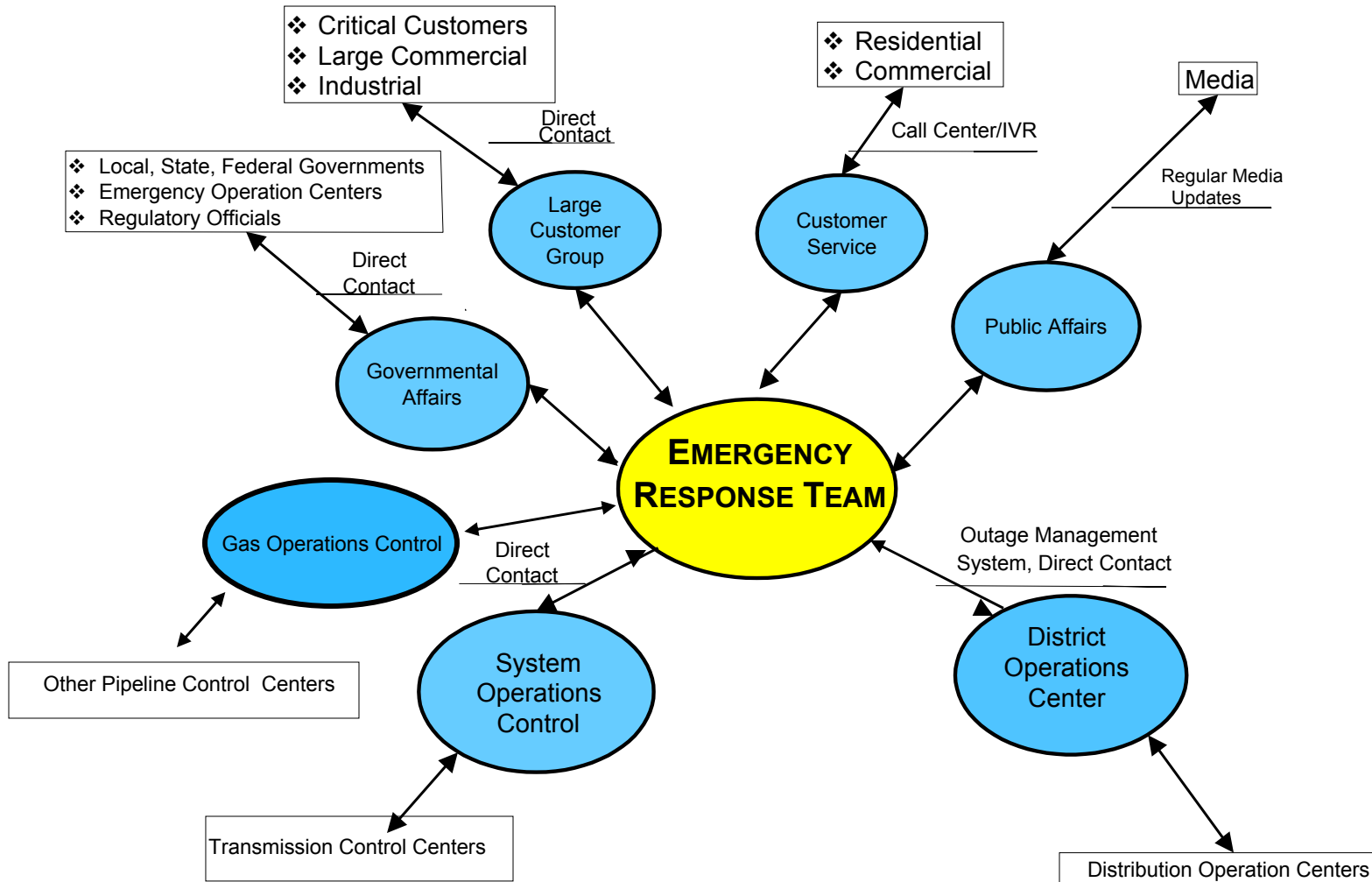


Critical Role of Communication

- Designated Governmental Affairs representatives keep governmental entities informed
- Mutual Assistance
- Utility communications
 - SERC, NERC, DOE, DHS and FERC, STATE EMD, National Guard and DOT for gas issues



Emergency Communication



Customer Communications

- Customer Communication
 - News Media
 - Public Service Announcements
 - Advertisements (Hispanic outreach)
 - Frequent status updates by company spokespersons
 - Web reporting and updates



POWER OUTAGE - Microsoft Internet Explorer - Provided by SCANA Ver. 6

File Edit View Favorites Tools Help

Address <https://secl...> Go

ACCOUNT MANAGEMENT

Account Summary
Billing & Payments
Account History
Energy Analyzer
Report Outage
Small Business
Resource Center

POWER OUTAGE

Print Save

Customer Address

Bill Preference: Email
Payment Preference: ePay via BB&T Checking
Payment Plan: EPP

[...Upgrade to eDraft](#)
[...Change Profile](#)

Report a Power Outage Outage Information Glossary

Downed/sparking power lines* 1-888-333-4465

Gas leaks* 1-800-815-0083

Someone else is without power 1-888-333-4465

Streetlights & outdoor lighting 1-800-251-7234

***Do not attempt to report gas or electric emergencies online.**

Report An Outage:

*** Required Fields**

*Please select the situation that best describes your power outage.

Please select all that apply. **Don't**
Yes No Know

*Did you hear a loud noise outside when your power went out? ☐ ☐ ☐

*Does your neighbor have power? ☐ ☐ ☐

*Did you check your breakers? ☐ ☐ ☐

Who should we contact, if needed, during the restoration efforts?

*Contact Name:

*Contact Phone: () - ext

How do you wish to be contacted once your power has been restored?

***(Choose One)**

☐ Call using the phone number listed above.

☐ Email to this address:

☐ Text message to this address:

Comments

(Max characters 225)

Local intranet

Online Outage Reporting



Customer Frontline Response



Safety Culture

- Public and Employee Safety
 - Safety Advisors in the field
 - Major push for safety in all communications



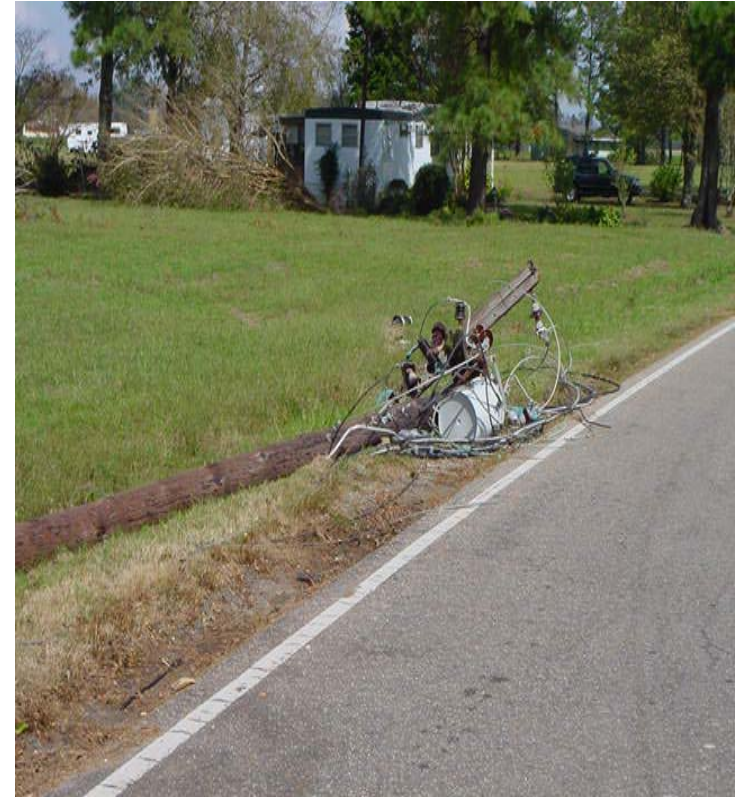
Customer Service

- Call Centers
 - High volume calling
 - Damage assessment and SCADA play a critical role in delivering timely, accurate information to customers
- Technology



Damage Assessment

- 300+ trained non-operational personnel
 - An additional 400+ storm support personnel



System Improvements

- Evolving technologies
- Distribution SCADA System
- OMOS



Distribution SCADA

Supervisory
Control
And
Data
Acquisition



How do we use SCADA?

- Monitor status of equipment
- Monitor loading of equipment (substations & line devices)
- Monitor weather information
- Remotely control equipment
- Isolate line faults and restore service



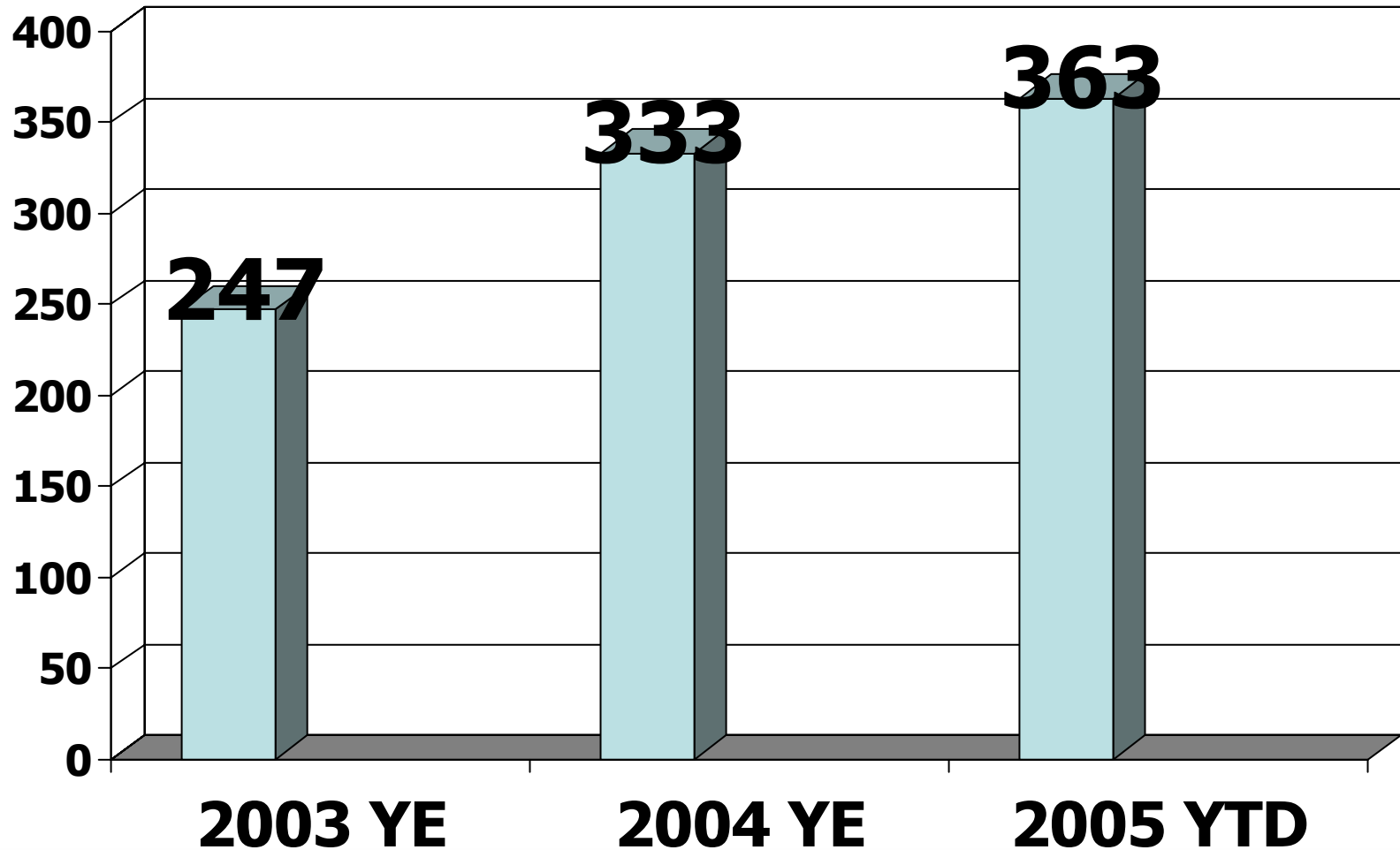
SCADA History



- 2 SCADA systems purchased in 1987
 - Columbia
 - Charleston
- 98% of our substations now have SCADA



SCADA Switch Totals



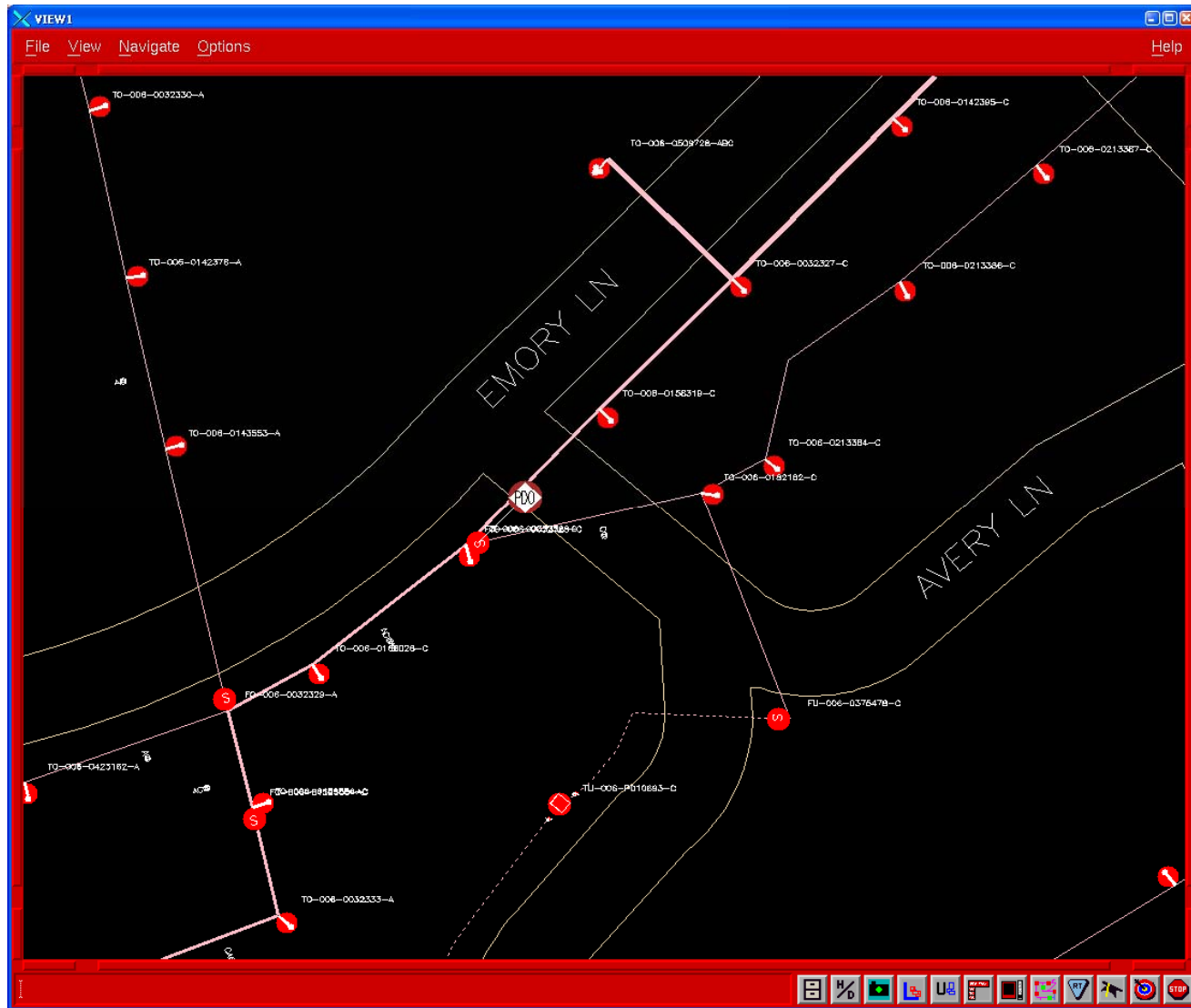
2005 Electric and Gas Distribution Focus

- Consistent Dispatch Support
- One Data Model
- Centralized Maintenance Program
- 5 year SCADA installation plan



rlc1

Looks like too-long hyphens in the Notes pane. I think these are en, sted of em-dashes.
a-r Curry, 4/21/2005



Pinpoints problems/likely causes



http://omsed/NRT_Client.VBD - Microsoft Internet Explorer provided by Provided by SCANA Ver. 6

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Media Print Mail New Window

Address http://omsed/NRT_Client.VBD Go Links

CommandCentricity Executive Dashboard

Region

Region
All

Op Area

All

Work Area

All

Summary

Event Circuit

Historical Event

☒ Critical
☐ Medical
☐ Key

Customer

☐ Emergency
☐ Non Emergency

Call

Fuzzy County Total

Historical Report

Historical Region

Total Events

7

Out

17

Crit

0

MED

0

KEY

0

Auto Update in 5 mins

05/26/2005 16:28

Automatic

Calls

3

Emergency

0

Automatic

Region	Events	# Out	# Crit	# MED	# KEY	# Calls	mergency C
Chas	2	8	0	0	0	1	0
Cola	4	7	0	0	0	1	0
West	1	2	0	0	0	1	0

Unknown Zone

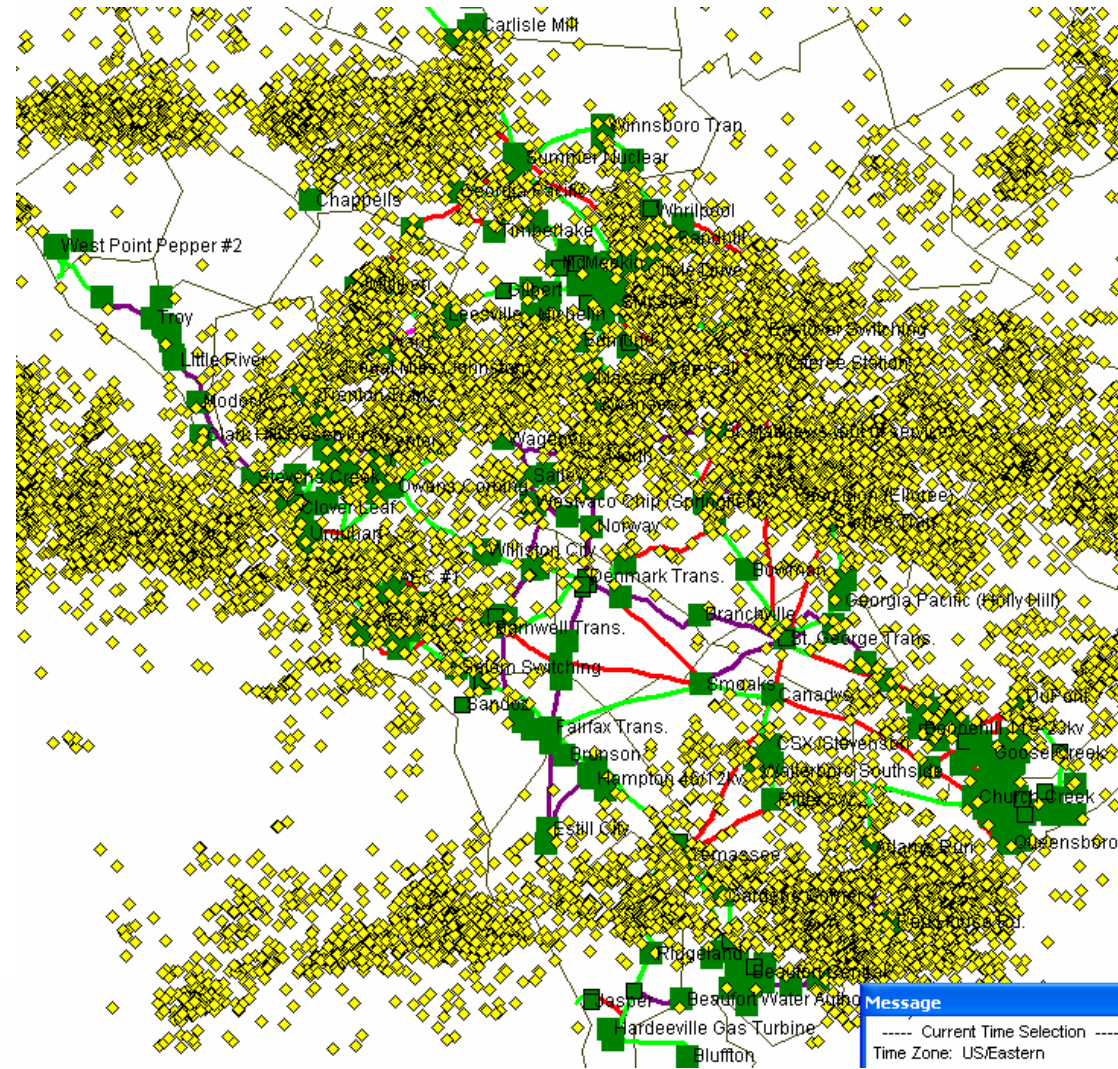


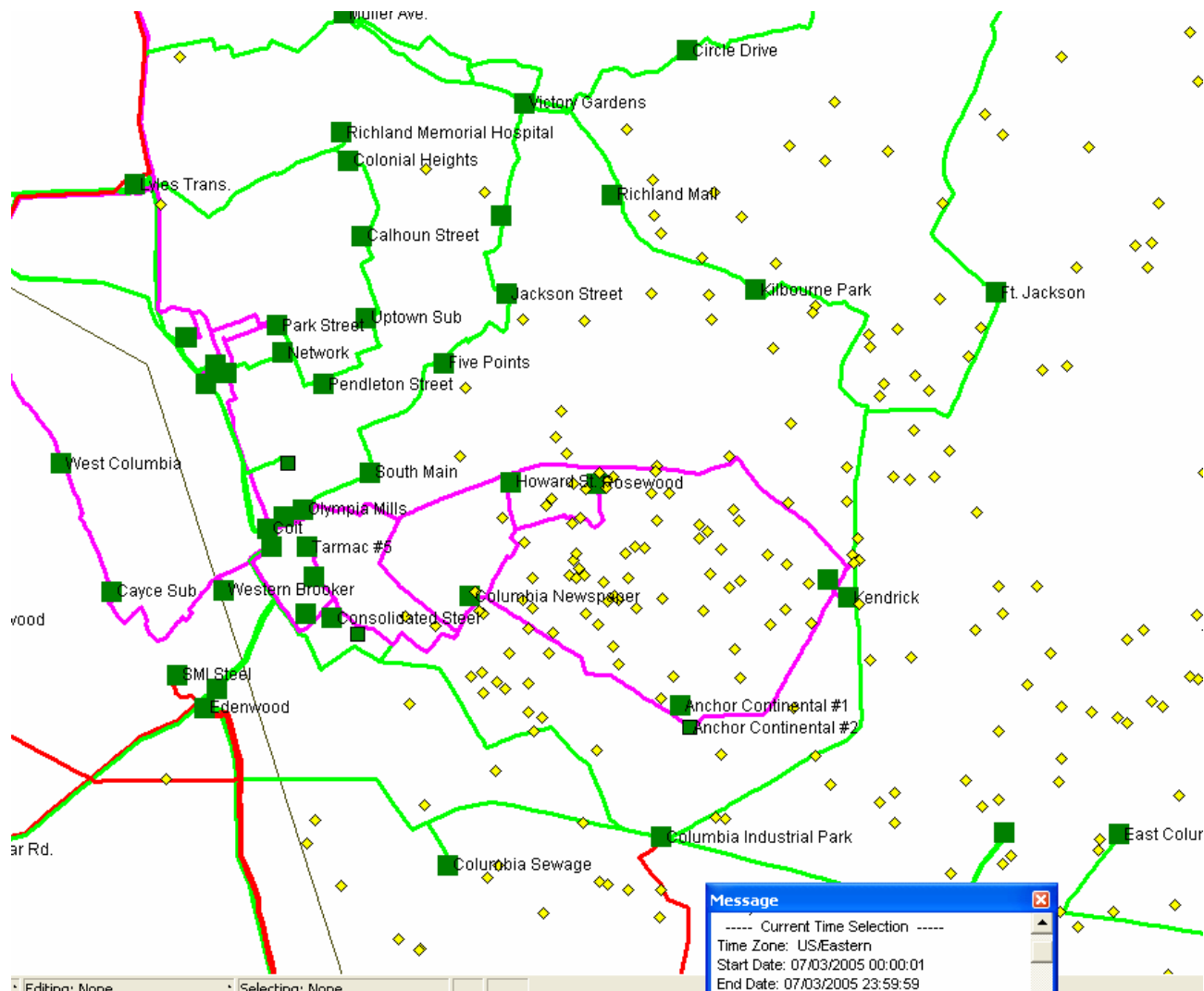
Computer Aided Dispatch (CAD)

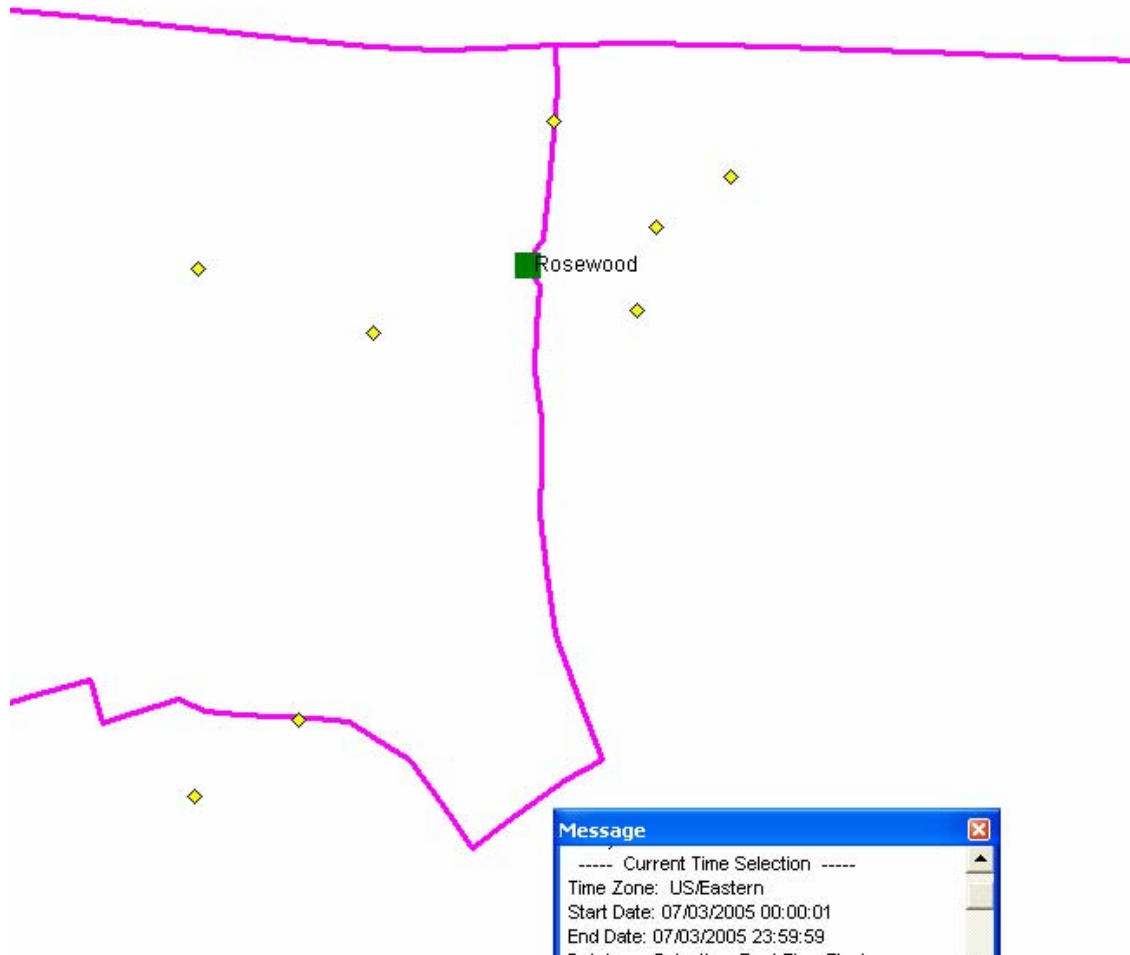
- Currently on all electric and gas service trucks
- Immediate communication and dispatch of outage information and orders



Lightning Strike Technology







Equipment

- Back yard bucket
- Back yard line truck





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Questions ?

